SAF-RC-040 300 Area D&D Waste Characterization **Sampling - Other Solid** FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Tim Lee L1-07

COMMENTS:

SDG 07-A-4919

SAF-RC-040

Rad only \underline{X} Chem only Rad & Chem

X Complete

Partial

Sample Location/Waste Site: 337B Building







SUBMITTED TO:

Joan Kessner Washington Closure Hanford 2620 Fermi Avenue, MSIN H4-21 Richland, WA 99354

REFERENCE DATA:

Client Sample No.:

J15HV4 through J15HW0

P.O. No.:

Not Available

Sample Location:

337B Building

Sample Type:

Bulk

Method Reference:

EPA-600/R-93/116

DCL Set ID No.:

07-A-4919

DCL Sample ID No.:

07-28496 through 07-28502

Sample Receipt Date:

8/31/07

Analysis Date:

9/10/07

We certify that the following samples were prepared and analyzed by Polarized Light Microscopy for asbestos and other fibrous constituents using EPA-600/R-93/116. The samples were acceptable upon receipt except where noted. The samples were examined under a stereomicroscope in a laboratory fume hood for general composition and phase separation. If needed, portions of the sample were removed and ground with a mortar and pestle before being mounted on a glass microscope slide. Mountings of representative portions of the material are prepared in one or more appropriate refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the materials analyzed and are summarized on the attached bulk asbestos analysis data sheets. DataChem Laboratories will dispose of all bulk samples after 60 days unless other arrangements are made.

Shawn Smythe Analyst

Anna Marie Ristich

Reviewer

*Floor tiles, decorative paints, joint compounds, and cement materials require additional treatment in order to evaluate the concentration of small asbestos fibers bound in the material. Some samples may contain fibers that are not visible by PLM and can only be detected by electron microscopy techniques. Floor tiles are analyzed as homogeneous materials if insufficient mastic is present or if phases have been cross contaminated.

DataChem Laboratories NVLAP Lab ID: 101917. Laboratory accreditation by the National Institute of Standards and Technology does not in any way constitute approval or endorsement by NVLAP, NIST, or any agency of the federal government.

CINCINNATI OFFICE 4388 GLENDALE-MILFORD ROAD CINCINNATI, OHIO 45242-3708 513 733-5338, FAX 513 733-5347

WEST COAST OFFICE 11 SANTA YORMA COURT NOVATO, CALIFORNIA 94945 800 280-8071, FAX 415 893-9469

DataChem Laboratories Polarized Light Microscopy Asbestos Analytical Report

Client: Washington Closure Hanford Location: 337B Building Set ID: 07-A-4919

	71 6777 74	74 #777 18	71 577776	71.6177.70	
Client Sample ID:	J15HV4	J15HV5	J15HV6	J15HV7	J15HV8
DCL Sample ID:	07-28496	07-28497	07-28498	07-28499	07-28500
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Homog.	Homog.	Homog.	Homog.
Color:	Grey	Grey	Grey	Grey	Grey
Texture:	Pwdry/Fbrs	Pwdry/Fbrs	Fibrous	Fbrs/Pwdry	Pwdry/Fbrs
Description:	Material	Material	Material	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:	>20≤30	>20≤30	Trace	>40 ≤ 50	>20≤30
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	>20≤30	>20≤30	Trace	>40 ≤ 50	>20≤30
Other Materials				· · · · · · · · · · · · · · · · · · ·	
% Cellulose:					
% Fiberglass:			>70≤80		
% Other Fibers:				>5≤10	
% Resin/Binder:					
% Non Fibrous:	>60≤70	>60≤70	>10≤20	>30≤400	>60≤70

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.

Shawn Smythe Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request.

Wherever possible, separate phases are analyzed and reported individually.

DataChem Laboratories Polarized Light Microscopy Asbestos Analytical Report

Client: Washington Closure Hanford Location: 337B Building Set ID: 07-A-4919

Client Sample ID:	J15HV9	J15HW0	
DCL Sample ID:	07-28501	07-28502	
Macroscopic Examination			
Accepted/Rejected:	Accepted	Accepted	
Homogeneity:	Homog.	Homog.	
Color:	Grey	Grey	
Texture:	Pwdry/Fbrs	Crmby/Fbrs	
Description:	Material	Material	
Analysis:	PLM	PLM	
Asbestiform Minerals		····	
% Chrysotile:	>20≤30		
% Amosite:			
% Crocidolite:			
% Tremolite - Actinolite:			
% Anthophyllite:			
% Total Asbestos:	>20≤30	ND	
Other Materials			
% Cellulose:		>5≤10	
% Fiberglass:		>20≤30	
% Other Fibers:			
% Resin/Binder:			
% Non Fibrous:	>60≤70	>50 ≤ 60	

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.



Shawn Smythe Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

Washington Closure Hanford	CI	HAIN OF CUST	ODY/S	AMPI	E ANALY	YSIS	REQUE	ST	ĺ	RC	-040-326	Page 1	of <u>2</u>
Collector Tim Lee	Company Contact Telephone No. Tim Lee 627-8639						Project Coordinator KESSNER, JH		Price Code 9K		Data Turnaround		
Project Designation 300 Area D&D Waste Characterization Sampling - Other Sc	Sampling Location aste Characterization Sampling - Other Soli 337B Building					SAF No. RC-040			7			7 Days	
Ice Chest No. FED EX BOX		Field Logbook No. COA EL-1603-2 See b							•				
Shipped To DataChem Laboratories - Cincinnati	Offsite Property No. A 070417						Bill of Ladi See OSPC		l No.				
POSSIBLE SAMPLE HAZARDS/REMARKS]			T	·	<u> </u>	T	<u> </u>
Asbestos		Preservation	None										
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		Volume	5g							- i. ·		 - -	
			Asbestos- BULK-EPA	-	_	 				<u> </u>		1	
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	2-1-0	/ / /		 	 -	 	- 	+				 -	
J15HV8 797 CC OTHER SOLID	· 27 · 0		12	╅				+				 	
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Relinquished By/Removed From Date/Time Re	2728		ate/Time	" معتدن									SE=Sediment SO=Solid
Relinquished By/Removed From Date/Time / Re	Sceived By/Stor		ste/11thc1 5-30-6 7	, ,,,,,	Sampler una	Valuadic	to remindrizu						SI=Sludge W = Water
Relinquished By/Reinqued Guge Date/Time 400# Re	red in D	ate/Time	7000	samples from 3728 Custodi shipping on	13728 R 20 rem	Cof# 25						O=O# A=Air	
6/15/19/Cm/ - 1 08-2007 1500	FED	EX			supping on_	6 /2	Q/AZ	or					OS=Drun Solids DL=Drun Liquid
Relinquished By/Removed Fran Date/Time Received By/Stored In Date/Time								ŀ					T=Tissue WI=Wipc L=Liquid
Relinquished By/Removed From Date/Time Re		ate/Time	57				1					V=Vegetation X=Other	
Relinquished By/Removed From Date/Time Ro	ceived By/Sto	red in D	ate/Time	\neg									
LABORATORY Received By SECTION	→	<u></u>	1	<u>I</u> îtle	- -						87311	Date/Time	
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